

## Key Idea 7/Standard 4 Review Sheet

**Human Impact:** Human actions can have both a negative or positive impact on the environment.

The primary reason humans have a negative impact on the environment is because the human population is \_\_\_\_\_, which places a \_\_\_\_\_ demand on resources such as food, water and space.

There are no easy solutions to any ecological problem. Every solution can have BOTH negative and positive consequences. This is known as a \_\_\_\_\_.

What is meant by the statement “the Earth has finite resources”?

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Explain the difference between renewable and nonrenewable resources.

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**Actions being taken by humans to reduce or repair damage to the environment include:**

1. Recycling wastes
2. Conserving available resources
3. Using cleaner resources (ex: \_\_\_\_\_ over fossil fuels)
4. \_\_\_\_\_ of habitats and endangered species
5. Use of biological controls instead of pesticides and herbicides
6. Farming native plants (ex: cocoa in the rainforest)
7. \_\_\_\_\_ trees to replace those cut down.
8. Rotating crops or planting cover crops to reduce soil loss.
9. Passing \_\_\_\_\_ to control pollution, land management, hunting, fishing, etc.

The increase in the concentration of a poison as we move up the food chain is called

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How can an understanding of ecology help limit human damage in the environment?

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How have human technologies harmed the ecosystem?		
<u>Human Technology</u>	<u>Harmful Influence</u>	<u>What can be done?</u>
nuclear power		
burning fossil fuels		
Use of chemical fertilizers		
Development and industries around rivers		
runoff from sewage		
Introduction of foreign or non-native species		
Clear cutting and cutting and burning the rain forest		

Other Problems:

1.) **Global warming**

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Increasing amounts of carbon dioxide in the atmosphere appears to be causing a \_\_\_\_\_ of the Earth's atmosphere. This carbon dioxide is coming from increased burning of \_\_\_\_\_ such as gasoline, coal, and oil.

This may be bad because it is changing \_\_\_\_\_ levels and climate/\_\_\_\_\_ patterns. It may also lead to more \_\_\_\_\_ borne diseases.

What can be done? \_\_\_\_\_

### 2.) Acid Precipitation

Sulfur dioxide (also nitrogen oxides) from coal burning sources + rain  
= \_\_\_\_\_

-- most of the acid rain damaging New York State comes from the \_\_\_\_\_ U.S.

-- acid rain kills aquatic \_\_\_\_\_, crumbles buildings,  
and has many other effects, etc.

What can be done? \_\_\_\_\_

### 3.) Ozone Depletion

-- ozone brings about a reduction of \_\_\_\_\_ rays associated with  
skin cancer

-- our use of chlorofluorocarbons (\_\_\_\_\_) is destroying the ozone layer

CFC sources: \_\_\_\_\_

Problems caused by ozone depletion:

a.)

b.)

What is an exotic or invasive species? \_\_\_\_\_

List three examples of exotic or non-native invading species in NNY.

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List two reasons non-native species may damage the ecosystem.

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List an example of religious and/or cultural views contributing to the problem of population growth and or distribution.

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What is SEQR? What is its purpose?

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Name two positive aspects of building a large mall in a community and two negative environmental aspects of such a project.

<u>Positive Aspects</u>	<u>Negative Environmental Aspects</u>